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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/825,298	04/16/2004	Fred Michael Stefanik	250686US8	7754
22850	7590	01/24/2007	EXAMINER	
OBLOM, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			YENKE, BRIAN P	
1940 DUKE STREET			ART UNIT	PAPER NUMBER
ALEXANDRIA, VA 22314			2622	
SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONTHS	01/24/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.	Applicant(s)	
	10/825,298	STEFANIK ET AL.	
	Examiner	Art Unit	
	BRIAN P. YENKE	2622	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 13 January 2007.
2a) This action is **FINAL**. 2b) This action is non-final.
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-13 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) Claim(s) _____ is/are allowed.
6) Claim(s) 1-13 is/are rejected.
7) Claim(s) _____ is/are objected to.
8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date, ____.
3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date . 5) Notice of Informal Patent Application
6) Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jeong, US 6,515,712 in view of Applicant's Admitted Prior Art (AAPA).

Jeong discloses that in conventional transmission systems, that linear/non-linear correction receiving unit (200 (Fig 1) generates a reference signal which has a predetermined frequency of that received from the directional coupler 160, wherein the signal is generated to offset the distorted signal output from coupler 160, by performing the 180 phase adjustment (which also includes adjusting the amplitude to that of the noise signal, since the procedure is to create the same signal which is out of phase by 180 degrees to thereby effectively remove such noise). Jeong also disclose a modulation 110 which modulates the signal output from correction unit 200 which are modulated with linear filter 112 and non-linear pre-corrector 113, which outputs a composite signal, wherein the composite signal is combined with the noise (claimed spurious) signal prior to transmission since the HPA 150 is prior to transmission. It is noted that Fig illustrates reception of MPEG-2 (which includes analog and digital data) wherein the use of digital signals is received, the signal is analog in element 112 where it is broken down into I and Q components, meeting the claimed invention.

Although, Jeong does not explicitly recite the use of a high voltage power supply, although it is required for a HPA to receive power since the HPA is an active device (i.e. not passive). Regardless of such conventional elements/structures, the examiner will rely upon AAPA which discloses (page 3, line 8-18), where it is known to generate a signal that is a multiple of the AC line frequency.

Thus Jeong which discloses the generation of a signal to duplicate the noise signal imparted onto the composite signal prior to transmission, would duplicate the higher power voltage supply signal, if this was the element that was creating such distortion. Although, Jeong goes even further correct for all distortion prior to transmission, which meets the limitations as currently claimed, thus it would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the conventional noise offset in transmission systems with Jeong in order to isolate the noise source and provide a clean signal for transmission.

In considering claim 4

AAPA discloses the use of a LO of a conventional analog exciter circuitry. As stated above the reception of the digital MPEG signal is processed with respect to Jeong, wherein AAPA discloses the reception/processing of an analog signal (also MPEG), thus based upon the types of signals transmitted, would determine the appropriate elements (i.e. L.O, mixers etc...).

In considering claims 7-9 and 11-13,

See claim 4, In addition, the combination of Jeong/AAPA does not explicitly recite the use of a balanced modulator, however the use of such are notoriously well known in the art and available to the designer who can choose between balanced/unbalanced based upon the needs of the system, thus the examiner takes "OFFICIAL NOTICE" regarding as such.

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Yenke whose telephone number is (571)272-7359. The examiner work schedule is Monday-Thursday, 0730-1830 hrs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, John W. Miller, can be reached at (571)272-7353.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to:

(571)-273-8300

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703)305-HELP.

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800-PTO-9199 or 703-308-HELP

(FAX) 703-305-7786

(TDD) 703-305-7785

An automated message system is available 7 days a week, 24 hours a day providing informational responses to frequently asked questions and the ability to order certain documents. Customer service representatives are available to answer questions, send materials or connect customers with other offices of the USPTO from 8:30 a.m. - 8:00p.m. EST/EDT, Monday-Friday excluding federal holidays.

For other technical patent information needs, the Patent Assistance Center can be reached through customer service representatives at the above numbers, Monday through Friday (except federal holidays) from 8:30 a.m. to 5:00 p.m. EST/EDT.

The Patent Electronic Business Center (EBC) allows USPTO customers to retrieve data, check the status of pending actions, and submit information and applications. The tools currently available in the Patent EBC are Patent Application Information Retrieval (PAIR) and the Electronic Filing System (EFS).

PAIR (<http://pair.uspto.gov>) provides customers direct secure access to their own patent application status information, as well as to general patent information publicly available. EFS allows customers to electronically file patent application documents securely via the Internet. EFS is a system for submitting new utility patent applications and pre-grant publication submissions in electronic publication-ready form. EFS includes software to help customers prepare submissions in extensible Markup Language (XML) format and to assemble the various parts of the application as an electronic submission package. EFS also allows the submission of Computer Readable Format (CRF) sequence listings for pending biotechnology patent applications, which were filed in paper form.

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Art Unit: 2622

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B.P.Y
19 January 2007


BRIAN P. YENKE
PRIMARY EXAMINER